VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangma", Belgaum -590014, Karnataka.



PROJECT WORK-1 REPORT on

HOSTEL MANAGEMENT SYSTEM

Submitted by

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Under the Guidance of
Namratha M
Assistant Professor, BMSCE

in partial fulfillment for the award of the degree of BACHELOR OF ENGINEERING in COMPUTER SCIENCE AND ENGINEERING



B.M.S. COLLEGE OF ENGINEERING BENGALURU-560019

(Autonomous Institution under VTU)

B. M. S. College of Engineering,

Bull Temple Road, Bengaluru 560019

(Affiliated To Visvesvaraya Technological University, Belgaum)

Department of Computer Science and Engineering



CERTIFICATE

This is to certify that the project work entitled "HOSTEL MANAGEMENT SYSTEM" carried out by JIGAR D PATEL (1BM21CS081), KRISHN MALOO (1BM21CS092)

AND KSHITIJ S(1BM21CS093) who are bonafide students of B. M. S. College of Engineering. It is in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2022-23. The project report has been approved as it satisfies the academic requirements in respect of Web Application Development (21CS3AEWAD) work prescribed for the said degree.

Signature of the Guide Namratha M Assistant Professor BMSCE, Bengaluru Signature of the HOD Dr. Jyothi S Nayak Prof & Head of Dept of CSE BMSCE, Bengaluru

External Viva

Name of the Examiner			Signature with date
	1.		
	2	 	

B.M.S. COLLEGE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



DECLARATION

We, JIGAR D PATEL (1BM21CS081), KRISHN MALOO (1BM21CS092), KSHITIJ S (1BM21CS093), students of 3rd Semester, B.E, Department of Computer Science and Engineering, BMS College of Engineering, Bangalore, hereby declare that, this Web Application Development entitled "Hostel Management System" has been carried out by us under the guidance of Namratha M, Assistant Professor, Department of CSE, BMS College of Engineering, Bangalore during the academic semester Oct-Feb 2022-23.

We also declare that to the best of our knowledge and belief, the development reported here is not from part of any other report by any other students.

Signature

JIGAR D PATEL (1BM21CS081) (1BM21CS092)

KRISHN MALOO

KSHITIJ S (1BM21CS093)

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INTRODUCTION

1.1 Overview

In this Project "Hostel-Management System", we have made an effort to make the Hostel-System of BMSETH online. Our website includes exclusive features for Hostelers like Hostel leave application forms, Suggestion box, Complaint box, personalized dashboard etc. We also have information about Hostel facilities like Hostel Events, Mess, Accommodation and Admissions, Code of Conduct, Anti-ragging norms etc.

1.2 Motivation

Our major advantages can be summarized as follows:

Easy Access

Making Hostel-Website online would ensure easy access to hostel-facilities to both Freshers seeking admissions into BMSETH and presently residing hostellers in campus.

Easy Payments Options

Presently Hostel accepts payments only in offline mode, This project will help making transactions online and henceforth there will be easier and smoother payments.

Easy Communication:

Communication among hostelites, Hostel admins and Guardians.

Reactive:

Presently BMSETH website is not reactive, In this website, the data will be regularly updated.

SOFTWARE REQUIREMENTS

2.1 Hardware Requirements:

- A PC with the following or greater specifications:
 - o Intel Core i5 (11th gen or higher)
 - 8 GB RAM 512 SSD
- A stable internet connection (2Mbps or higher).

2.2 Software Requirements:

• Operating system : Windows 11

Technologies : HTML, CSS, JavaScript

• IDE : Visual Studio Code

USER INTERFACE DESIGN

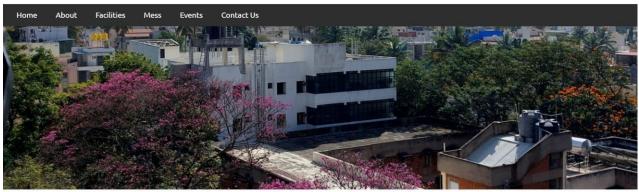
3.1 Home Page (Landing Page)

This website is currently an unofficial one but is for the betterment of the funcitonality of the hostel chores, and our aim is to get this into use officially!



B.M.S. EDUCATIONAL TRUST HOSTELS

Login





The B.M.S. Educational Trust (BMSET) is a prestigious group which based and manages the pinnacle magnificence schools viz., B.M.S. College of Engineering (BMSCE), BMS Institute of Technology & Management, BMS College of Law, BMS College for women and other institutions.

Fig.1.1 Home page-Header

- The page is divided using <div> tags.
- The page is divided into three parts header, main body and footer.
- Header contains floater, title and login button along with navigation bar and followed by an image.
- The body contains a brief introduction/description about hostels.

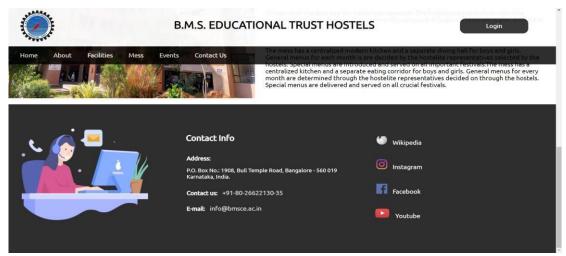


Fig 1.2 Home-Footer

• The footer contains contact information and is divided into three sub parts containing an image, contact information and social media handles respectively.

3.1.1 Admission

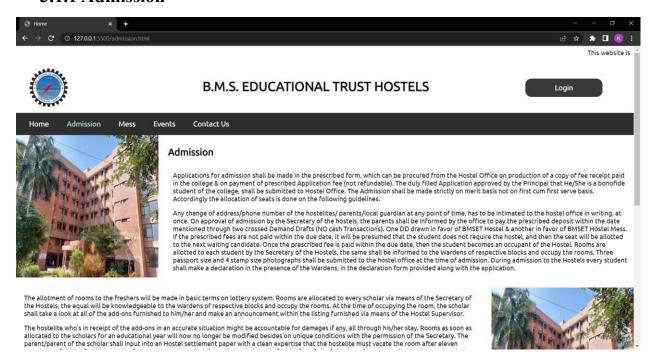


Fig 3.1.1 Admission

• Admission tab is a descriptive page which gives information about the admission procedure into the hostels and rules and regulations.

3.1.2 Mess

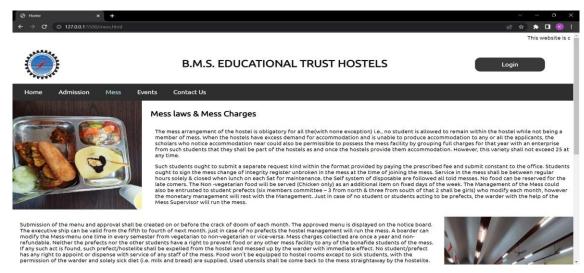


Fig 3.1.2 Mess

• Tab includes information about mess laws and charges along with a description about the food served.

3.1.3 Events

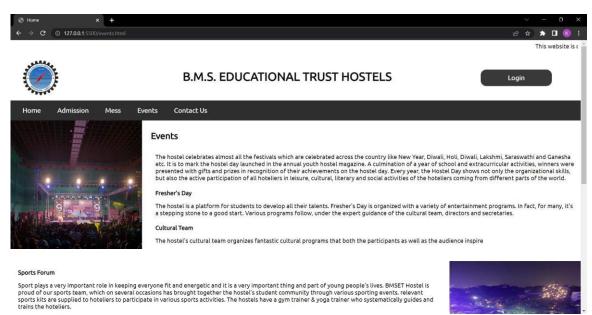


Fig 3.1.3 Events

• Tab gives information about the events conducted by BMSETH and gives a brief description about them.

3.2 Login Page

- Hostelites should sign-in to view details/status of their accommodation and services by Hostel
- Username and password should be entered by the student to login.
- The submit button on clicking/hovering changes its properties (as shown in fig 2.2).
- The page validates if a valid username is entered and displays a pop-up when login is successful.

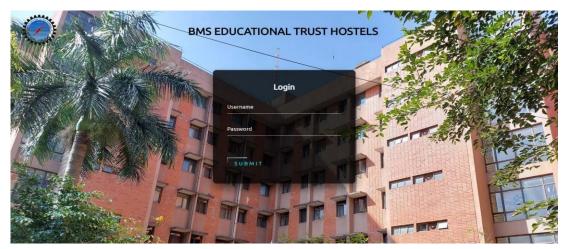


Fig 2.1

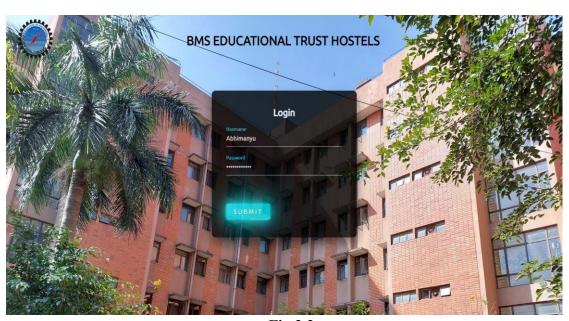
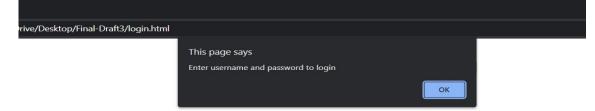
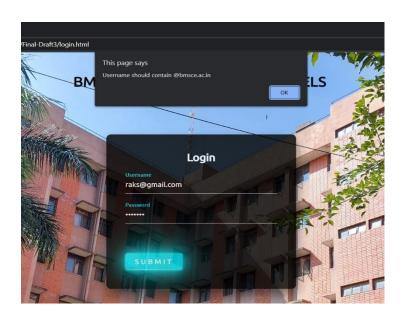


Fig 2.2





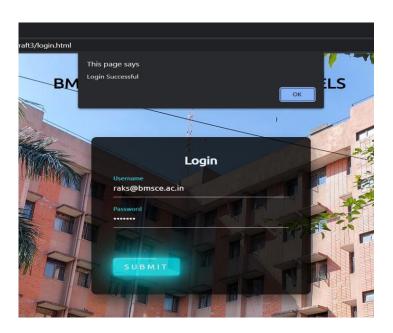


Fig 2.3

3.3 After Login-Page

- This is the page user reaches after logging in.
- This page is divided into two parts header and body.
- The header contains logo, title and button which directs back to main website along with a navigation tab with link to different pages.

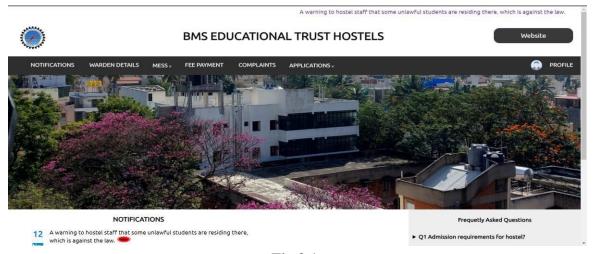


Fig 3.1

- Body is divided into two parts one contains the notification along with date and summary tag is used here to provide an option to read more about a particular notification.
- Similarly, the other part has FAQs and summary tag is used here also.

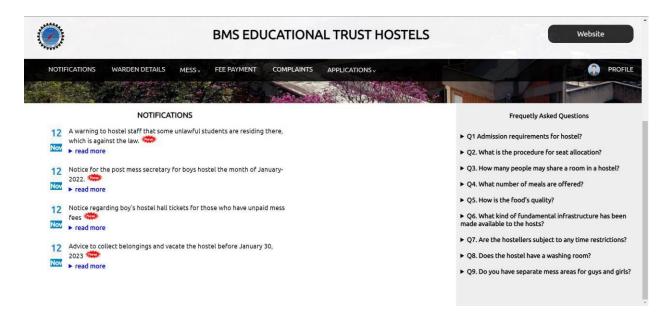


Fig 3.2

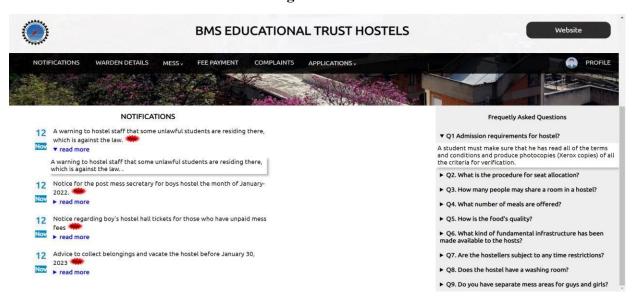


Fig 3.3

3.3.1 Student-Detail Page (Profile)

- Tab contains personal and academic information of the student.
- The page is divided using <div> tags and there are options to change profile photo as well.
- Displays academic history, family background, hostel room details etc.

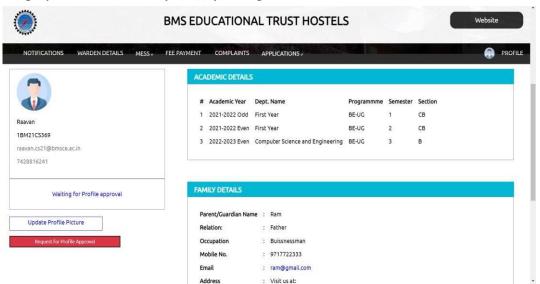


Fig 3.3.1.1

3.3.2 Warden Details Tab

- Following page displays details of warden and supervisor.
- Contains contact information of the warden and supervisor.
- Page is divided using <div> tags.

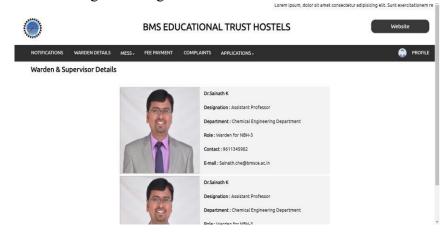


Fig 3.3.2

3.3.3 Mess

- Contains two dropdown options menu and suggestion form.
- Menu page contains the menu in .jpg form.
- Suggestion form takes in suggestions for the menu based on day and meal.

3.3.3.1 Menu

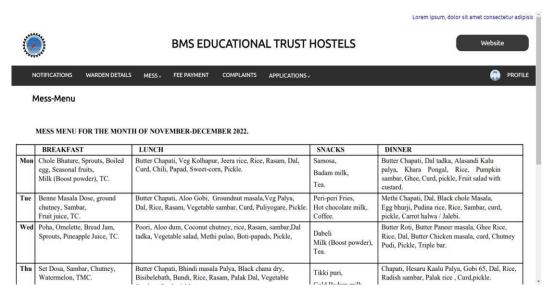


Fig 3.3.3.1

3.3.3.2 Suggestion Form

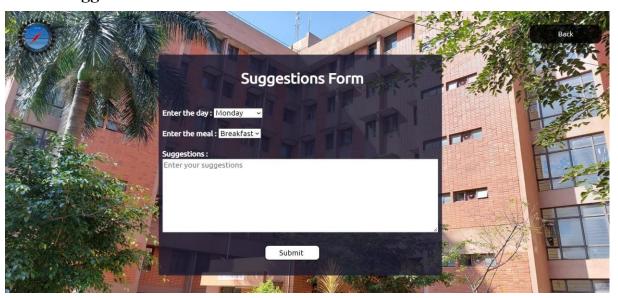
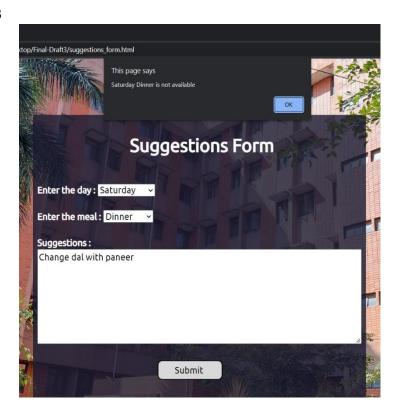


Fig 3.3.3.2

- Suggestion form also checks for cases which aren't possible, for instance user selects "Saturday dinner" or "Saturday snacks" which isn't correct as snacks and dinner are not provided on Saturday.
- Also, it checks if suggestion is invalid or not.



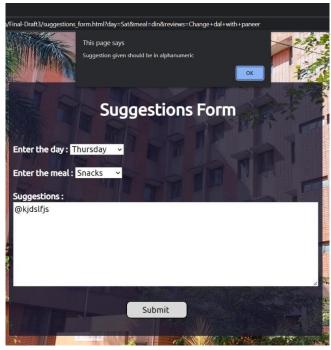


Fig 3.3.3.3

3.3.4 Fee-Payment

- The following tab displays fee details of the student and provides an option/button to pay it online.
- Contains information about hostel fee, mess fee and late fee (if any). The page is created using <div> tag and table tag.

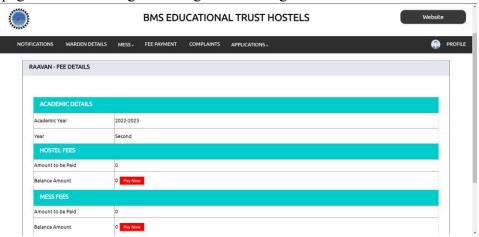


Fig 3.3.4

3.3.5 Complaint

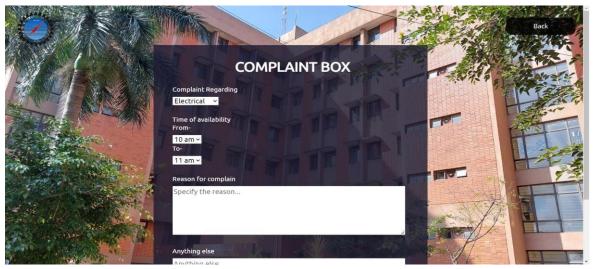
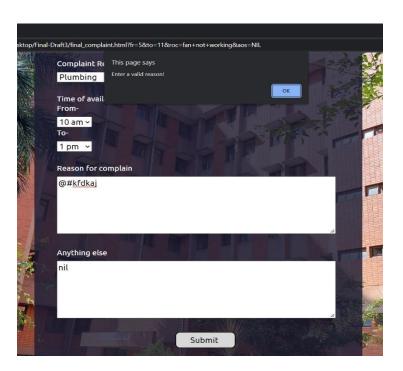


Fig 3.3.5.1

- The following page takes in the general complaints from hostelites, taking in details about time of availability and the reason.
- The page is created using form tag and takes input from the users alongwith checking if the time of availability is appropriate, mobile number is correct and the reason entered is valid.



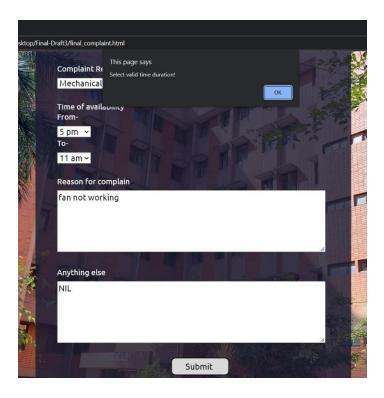


Fig 3.3.5.2

3.3.6 Application • The application tab has a dropdown to select for the application to either be a leave application or a late coming application.

3.3.6.1 Leave Application

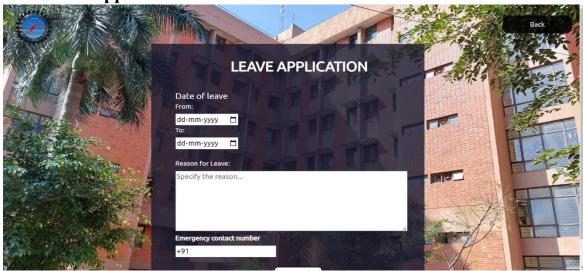
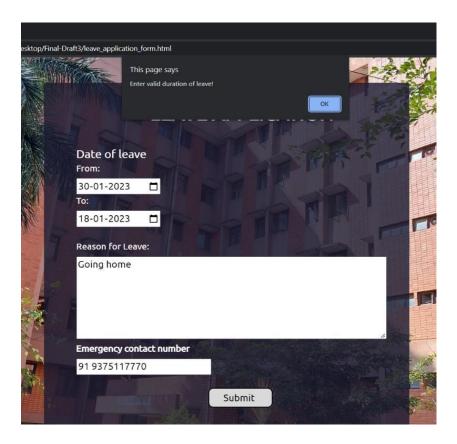
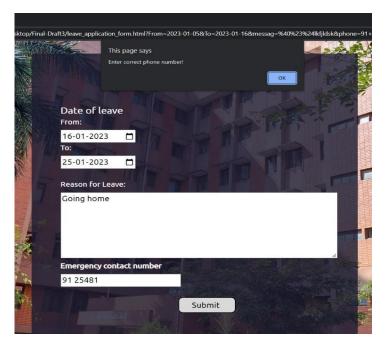


Fig 3.3.6.1

- The following page takes in the information about the duration of leave, reason for leave and emergency contact number from the user.
- It checks for if the duration entered is correct, the reason is valid and a valid contact number is entered or not.





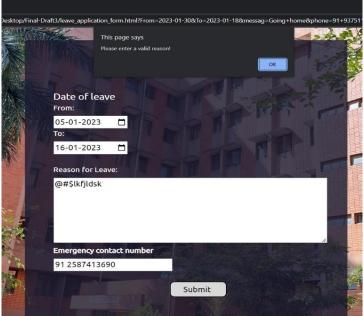


Fig 3.3.6.1

3.3.6.2 Late Coming Application

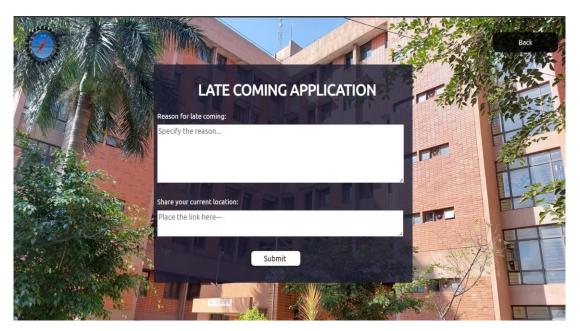
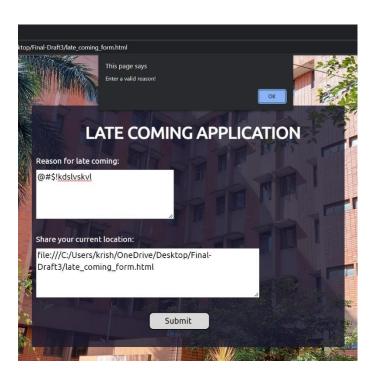


Fig 3.3.6.2

- Following tab helps the user to put in a late coming application taking in inputs about the reason and the current location.
- It checks if a valid reason is entered and a valid link is shared or not.



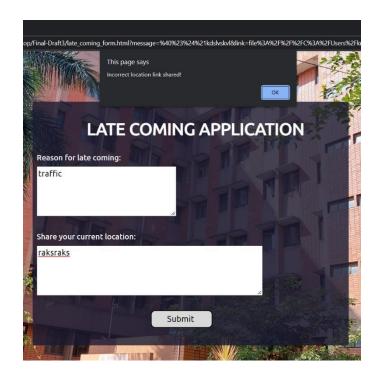


Fig 3.3.6.2

BMS Educational Trust Hostels

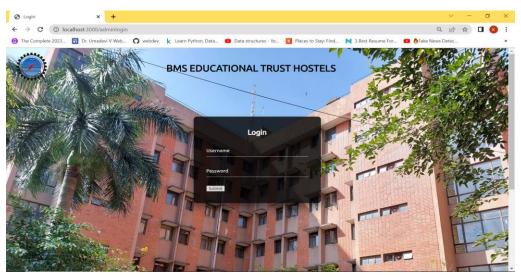


Fig 4

- To view details, the administrator must sign in.
- Username and password should be entered by the Admin to login.
- To log in, click the Submit button.
- The page validates if a valid username is entered and displays a pop-up when login is successful.

4.1 BMSCE ADMIN

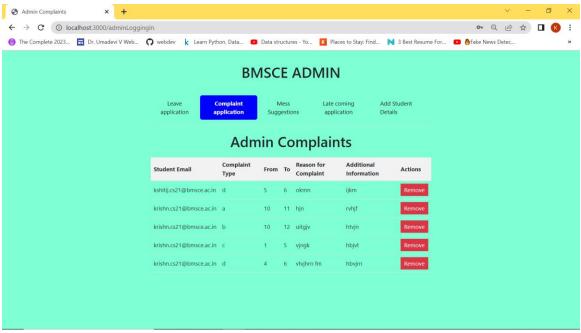


Fig 4.1

- The page is divided using <div> tags.
- The page is divided into wo parts header and main body.
- Header contains leave application, complaint application, mess suggestion, late coming application and to add student details form.
- There are current and unresolved complaints in the body.

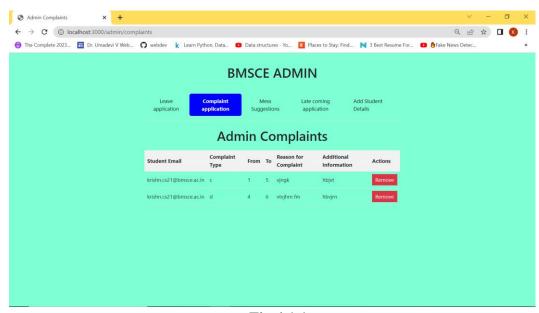


Fig 4.1.1

• Once the issue has been resolved, the administrator may delete the complaint by using the remove button.

4.2 LEAVE APPLICATION

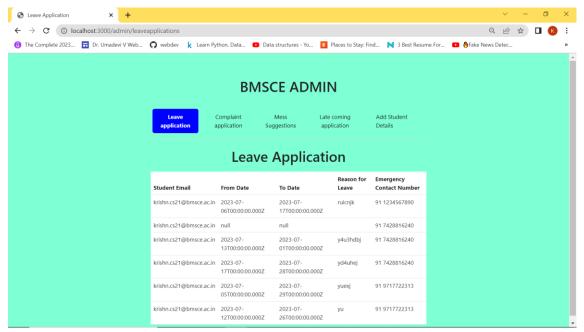


Fig 4.2

- The following page gives the information about leave application.
- It displays information about the pupils who recently took leave.
- Leave application contain student email, from-date, to-date, reason for leave and emergency contact number.

4.3 ADMIN MESS SUGGESTION

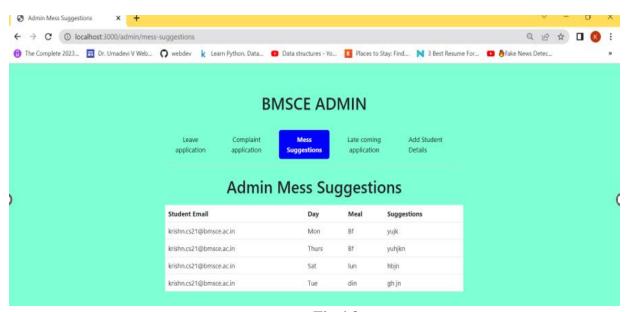


Fig 4.3

- The following page gives the information about Mess Suggestion.
- It displays information about students' email, Meal-day, meal and Suggestion.

4.4 ADMIN LATE COMING APPLICATIONS

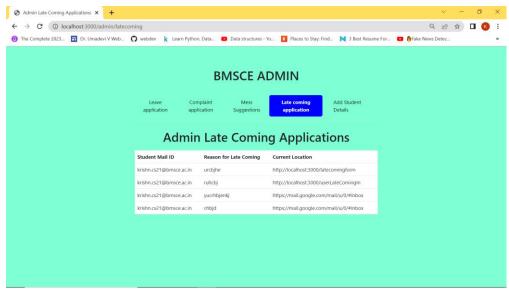


Fig 4.4

- This page provides information on all of the students that submitted late applications.
- It include information like student mail id, reason for late coming and current location.

4.3 STUDENT FORM

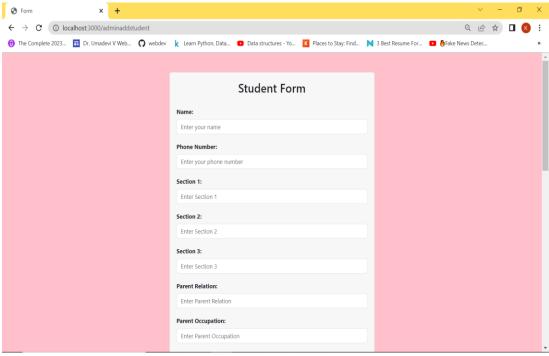


Fig 4.3.1

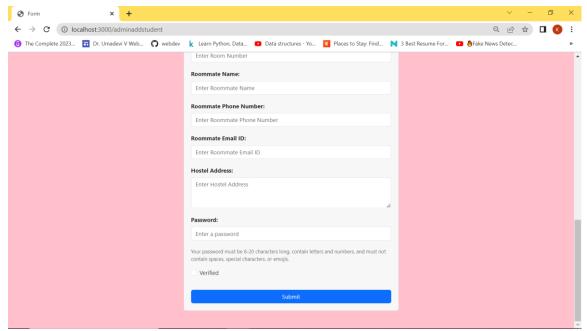


Fig 4.3.2

- This page include to add students' details by admin.
- Admin need to fill each detail given in (Fig4.3.1-Fig4.3.2).
- To save the students press on the submit button.